

JUN-27-2003 14:22

BOEING BLDG.9 C1

562 593 4285 P.02/06



AQM

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765page 1
Permit No.
F61584
A/N 415853**PERMIT TO OPERATE**

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.
If the billing for annual renewal fee (Rule 301.5) is not received by the expiration date, contact the District.

C-6 BLDG 1/36

LEGAL OWNER
OR OPERATOR:

ID 130928

BOEING REALTY CORPORATION
3855 LAKEWOOD BLVD M/C D850-3 /
LONG BEACH, CA 90846

Equipment Location: 17200 - 1/2 HARBOR GATE, TORRANCE, CA 90501

Equipment Description:

UNDERGROUND CONTAMINATED SOIL VAPOR EXTRACTION AND CONTROL SYSTEM CONSISTING OF:

1. VAPOR EXTRACTION WELLS.
2. KNOCKOUT POT, VAPOR/LIQUID.
3. BLOWER, 1100 SCFM MAXIMUM.
4. TWO CARBON ADSORBERS, IN SERIES, EACH WITH A MINIMUM OF 3000 POUNDS OF ACTIVATED CARBON.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
- 3) IDENTIFICATION TAGS OR NAMEPLATES SHALL BE DISPLAYED ON THE EQUIPMENT TO SHOW MANUFACTURER MODEL NO. AND SERIAL NO. THE TAGS OR NAMEPLATES SHALL BE ISSUED BY THE MANUFACTURER AND SHALL BE AFFIXED TO THE EQUIPMENT IN A PERMANENT AND CONSPICUOUS LOCATION.
- 4) CURRENT CONTACT PERSON'S NAME, COMPANY AND PHONE NUMBER SHALL BE DISPLAYED IN A PERMANENT AND CONSPICUOUS LOCATION.
- 5) UPON COMPLETION, THE VAPOR EXTRACTION WELLS AND DUCTS SHALL BE CAPPED TO PREVENT VAPORS FROM VENTING TO THE ATMOSPHERE. VAPORS SHALL NOT BE EXTRACTED FROM THE SOIL UNLESS THEY ARE VENTED TO THE VAPOR CONTROL SYSTEM, WITH NO DETECTABLE LEAK BETWEEN THE OUTLET OF THE BLOWER AND THE OUTLET OF THE VAPOR CONTROL SYSTEM.

ORIGINAL

JUN-27-2003 14:23

BOEING BLDG.9 C1

562 593 4265 P.03/06



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

page 2
Permit No.
F61584
A/N 415853

PERMIT TO OPERATE**CONTINUATION OF PERMIT TO OPERATE**

- 6) A FLOW INDICATOR SHALL BE INSTALLED AND MAINTAINED AT THE INLET TO THE VAPOR CONTROL SYSTEM TO INDICATE THE FLOW RATE IN STANDARD CUBIC FEET PER MINUTE (SCFM). IN CASE A PRESSURE SENSOR DEVICE IS USED IN PLACE OF THE FLOW INDICATOR, A CONVERSION CHART SHALL BE POSTED ON THE EQUIPMENT TO INDICATE THE FLOW RATE (IN CFM) CORRESPONDING TO THE PRESSURE READING.
- 7) THE TOTAL FLOW RATE AT THE INLET TO THE VAPOR CONTROL SYSTEM SHALL NOT EXCEED 1100 SCFM.
- 8) THE VOLATILE ORGANIC COMPOUNDS (VOC) CONCENTRATIONS SHALL BE MEASURED AT THE INLET, MIDPOINT AND OUTLET OF THE VAPOR CONTROL SYSTEM AT LEAST ONCE EVERY OPERATING DAY FOR THE FIRST 14 DAYS OF OPERATION WHENEVER THE WEIGHT OF THE CARBON DECREASES DURING CHANGEOVER, THEN ONCE EVERY 7 DAYS OF OPERATION THEREAFTER, BY USING A FLAME IONIZATION DETECTOR OR AN AQMD APPROVED ORGANIC VAPOR ANALYZER (OVA) CALIBRATED IN PARTS PER MILLION BY VOLUME (PPMV) OF HEXANE (IF ANOTHER CALIBRATING AGENT IS USED IT SHALL BE CORRELATED TO AND EXPRESSED AS HEXANE).
- 9) SAMPLES SHALL BE COLLECTED AND ANALYZED ONCE DURING THE FIRST WEEK OF OPERATION FOR VOLATILE ORGANIC COMPOUNDS AND SPECIATED FOR (BENZENE, CHLORINATED CHLORINATED COMPOUNDS) AS FOLLOWS:
 - A. SAMPLES SHALL BE COLLECTED AT THE INLET AND OUTLET THE CARBON ADSORPTION SYSTEM.
 - B. SAMPLING AND ANALYSIS SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY PER RULE 304.
 - C. SAMPLING SHALL CONFORM TO CARB METHOD 422 OR EQUIVALENT. SAMPLES WITH HIGH MOISTURE SHALL BE COLLECTED USING AN APPROPRIATE METHOD SUCH AS SCAQMD METHOD 25.1/25.3 OR OTHER METHODS APPROVED BY SCAQMD.
 - D. ANALYSIS SHALL BE CONDUCTED USING EPA METHOD 8015/8021 AND EPA METHOD 8260 OR OTHER METHOD APPROVED BY SCAQMD.

ORIGINAL

JUN-27-2003 14:23

BOEING BLDG.9 C1

562 593 4285 P.04/06

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765page 3
Permit No.
F61584
AN 415853

AQMD

PERMIT TO OPERATE**CONTINUATION OF PERMIT TO OPERATE**

- 10) SAMPLES SHALL BE COLLECTED AND ANALYZED ONCE EACH MONTH OF OPERATION FOR VOLATILE ORGANIC COMPOUNDS AND SPECIATED FOR (BENZENE, CHLORINATED COMPOUNDS) AS FOLLOWS:
- A. SAMPLES SHALL BE COLLECTED AT THE INLET AND OUTLET OF THE CARBON ADSORPTION SYSTEM.
 - B. SAMPLING SHALL CONFORM TO CARB METHOD METHOD 422 OR EQUIVALENT. SAMPLES WITH HIGH MOISTURE SHALL BE COLLECTED USING AN APPROPRIATE METHOD SUCH AS SCAQMD METHOD 25.1/25.3 OTHER METHODS APPROVED BY SCAQMD.
 - C. ANALYSIS SHALL BE CONDUCTED USING EPA METHOD 8015/8021 AND EPA METHOD 8260 OR OTHER METHOD APPROVED BY SCAQMD.
- 11) THE VOC CONCENTRATION MEASURED AT THE OUTLET OF THE VAPOR CONTROL SYSTEM SHALL NOT EXCEED 20 PPMV AS HEXANE.
- 12) EMISSIONS OF THE LISTED COMPOUNDS (AS HEXANE), MEASURED AT THE OUTLET OF THE CONTROL SYSTEM, SHALL NOT EXCEED THE FOLLOWING LIMITS:
- | | |
|-----------------------|------------|
| 1,1-DICHLOROETHENE | 1.24 PPMV |
| 1,1-DICHLOROETHANE | 0.9 PPMV |
| 2-BUTANONE (MEK) | 3.1 PPMV |
| 1,1,1-TRICHLOROETHANE | 15.5 PPMV |
| TRICHLOROETHENE | 4.3 PPMV |
| 1,1,2-TRICHLOROETHANE | 0.2 PPMV |
| BENZENE | 0.3 PPMV |
| METHYLENE CHLORIDE | 0.14PPMV |
| 1,2-DICHLOROETHENE | 0.11PPMV |
| TOLUENE | 0.92 PPMV |
| XYLENE | 0.16 PPMV |
| PERCHLOROETHYLENE | 0.05 PPMV |
| CHLOROFORM | 0.05 PPMV |
| ETHYLBENZENE | 0.05 PPMV |
| EACH TRACE TOXIC | 0.005 PPMV |

ORIGINAL

JUN-27-2003 14:23

BOEING BLDG.9 C1
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

562 593 4285 P.05/06

page 4
Permit No.
F61584
A/N 415853**PERMIT TO OPERATE****CONTINUATION OF PERMIT TO OPERATE**

- 13) THIS EQUIPMENT SHALL NOT BE USED TO TREAT OR EXTRACT VAPORS FROM SOILS CONTAMINATED WITH ANY RULE 1401 COMPOUNDS (AS AMENDED JUNE 15, 2001) OTHER THAN THE FOLLOWING:
- 1,1-DICHLOROETHENE
 - 1,1-DICHLOROETHANE
 - 2-BUTANONE (MEK)
 - 1,1,1-TRICHLOROETHANE
 - TRICHLOROETHENE
 - 1,1,2-TRICHLOROETHANE
 - BENZENE
 - METHYLENE CHLORIDE
 - 1,2-DICHLOROETHENE
 - TOLUENE
 - XYLENE
 - PERCHLOROETHYLENE
 - CHLOROFORM
 - ETHYLBENZENE
 - TRACE TOXICS
- 14) WHENEVER TRACE TOXIC COMPOUNDS ARE DETECTED, THE APPLICANT SHALL SUBMIT A TOXIC RISK ASSESSMENT WITHIN 30 DAYS TO THE SCAQMD, ATTENTION TOXICS AND WASTE MANAGEMENT UNIT, TO SHOW THAT THE TOXIC RISK DOES NOT EXCEED TEN IN A MILLION.
- 15) WHENEVER THE VOC CONCENTRATION MEASURED AT THE OUTLET OF THE PRIMARY ADSORBER REACHES 20 PPMV, AS HEXANE, THE VAPOR CONTROL SYSTEM SHALL BE SHUT DOWN AND THE PRIMARY ADSORBER REPLACED WITH FRESH CARBON OR WITH THE SECONDARY VESSEL AND THE SECONDARY VESSEL REPLACED WITH FRESH CARBON (CARBON WITH CTC ACTIVITY NUMBER AT LEAST 60, ASTM D3467).
- 16) THE CARBON ADSORBERS SHALL BE CONNECTED IN SERIES. EACH CARBON ADSORBER SHALL CONTAIN A MINIMUM OF 3000 POUNDS OF ACTIVATED CARBON.
- 17) THE STACK HEIGHT SHALL BE A MINIMUM OF 14'-0" ABOVE GRADE.
- 18) RECORDS SHALL BE MAINTAINED TO VERIFY COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT FOR AT LEAST TWO YEARS AND BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

ORIGINAL

JUN-27-2003 14:24



AQMD

BOEING BLDG.9 C1
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

562 593 4285 P.06/06

page 5
Permit No.
F61584
A/N 415853

PERMIT TO OPERATE**CONTINUATION OF PERMIT TO OPERATE**

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

Dorris M. Bailey

By Dorris M. Bailey/tk01
6/19/2003

ORIGINAL

TOTAL P.06